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L6 ANSWER 300 OF 387

CA110(6):48370n Electrostaticographic toner containing treated carbon black. Ikeda, Takeshi; Mori, Hiromi (Canon K. K., Japan). Jpn. Kokai Tokkyo Koho JP 63158566 A2 1 Jul 1988 Showa, 13 pp. (Japan). CODEN: JKXXAF. CLASS: ICM: G03G009-08. ICS: G03G009-08.  
APPLICATION: JP 86-305178 23 Dec 1986.

AB In manufg. an electrostatog. toner by suspension polymn. of a compn. contg. polymg. monomers and C black, the C black is treated with the reaction product of a silane coupling agent (A) and a compd. (B). The silane coupling agent (A) has an amino, epoxy, or vinyl group as its functional group. The compd. (B) has a OH, CO<sub>2</sub>H, acid anhydride, isocyanate, amino, or vinyl group that is capable of reacting with  $\geq 1$  of the functional groups of A. C black was treated 1st with SH 6020 and then with stearic acid to be coated with the reaction product of them. A compn. contg. 2-ethylhexyl methacrylate, styrene, and the treated C black was suspension polymd. to give an electrostatog. toner with improved triboelectrification properties.

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L6 ANSWER 119 OF 387

CA112(118):160248w Surface-modified carbon black for tread rubbers. Asazuma, Takaharu (Asahi Carbon Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01207359 A2 21 Aug 1989 Heisei, 6 pp. (Japan). CODEN: JKXXAF. CLASS: ICM: C09C001-56. ICS: 860C011-00; C08K003-04; C08L021-00. APPLICATION: JP 88-31796 16 Feb 1988.

AB Title carbon black is prepd. by treating 100 parts oxidized carbon black contg. 0.3-0.8  $\mu\text{equiv}/\text{m}^2$  total acids with weak acid contents being  $\geq 65\%$  with 0.5-3.0 parts couplers. Thus, 100 g carbon black with sp. surface area 117  $\text{m}^2/\text{g}$  was heated in 0.2% aq.  $\text{H}_2\text{O}_2$  at 60-70° for 30 min to obtain an oxidized carbon black contg. 0.34  $\mu\text{equiv}/\text{m}^2$  total acids with weak acid contents being 0.28  $\mu\text{equiv}/\text{m}^2$ , which was then treated with 1.0 part Si 69 (silane coupler) in 1 L MeOH. Thus, obtained surface-modified carbon black (50.5 parts) was mixed with natural rubber 100, stearic acid 3, ZnO 5, S 2.5, vulcanization accelerator 0.5, and antioxidant 1 part to give a rubber compn. showing Lambourn wear resistance index 100 (slip rate 25%) and 102 (60%) vs. 3-4 points lower for a compn. prepd. by adding oxidized carbon black and Si 69 sep.

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